

ABSTRACT

A system comprising a plurality of power sources coupled in parallel is described. The sources are each coupled to a first bus and to a second bus. A sensing element corresponding to each power source is coupled to a third bus, and allows sensing of power demanded by a load from the source. Each source is configured to sense the power demanded from it by the load, and, in response thereto, supply power to the load. In one embodiment, a sensing element comprises a resistor having a resistance inversely proportional to the power capacity of its corresponding source. In the event of a power failure of a power source, an interlock responsive to the failure condition interrupts current flow through the sensing element corresponding to the failed source, and optionally disconnects the power source from the load.